SUBJECT INDEX

Vol. 142B, Nos. 1-4

Acalolepta luxuriosa, 317
Acetyl-CoA carboxylase, 374
Acid glycosidases, 391
Acute phase response, 67
Acylated apoA-I, 369
Acylated apoA-II, 369
Adaptation, 28
Adenine nucleotide translocase, 172
Adipose tissue, 224
Affinity chromatography, 56
Aggregation, 269
Albumin, 67
Alkaline phosphatase, 142
Allatotropin, 113
ALSM, 153
Ambystoma mexicanum, 258
3-Amino 1,2,4-triazole, 335
Amino acid sequence, 302
Amino acids, 308
Amphibia, 258
Amphioxus, 251
α-amylase, 56
Antarctica, 67
Antibacterial peptide, 317
Antibody binding, 233
Antifreeze protein, 90
Antioxidants, 465
Apo-14, 432
Apolipoproteins, 432
Apulian native breeds, 18
Aquaculture, 426
Arginase, 308
Astacin, 153
Astaxanthin, 398, 445
Atlantic salmon, 445
Axolotl, 258

Beetle, 90
Beta glucan binding protein, 209
Bioavailability, 445
Bivalves, 56
Bombyx mori, 403
Bone marrow cells, 419
Brain, 113
Branchiostoma, 251
Bromelain, 361

Calcineurin-signalling pathway, 324
Calmodulin, 142
Camel, 164
Canthaxanthin, 398
Carassius auratus, 335
Carbohydrate metabolism, 46
Carbonyl proteins, 335
Carotenoids, 239, 245
Cathepsin, 283
Cathepsin B, 283
Catla catla, 98
cDNA, 342
cDNA cloning, 79, 283
Cecropin, 317
Ceramides, 269
α-chain, 18
Chain elongation, 342
Channel catfish, 217
Characterization, 164, 192, 308
Chicken, 37, 201, 465
Chroococidiopsis sp., 269
Circular dichroism, 1
Clotting protein, 302
c-N-II, 107
Coleoptera, 317
Collagenase (MMP-1), 1
Conolophus subcristatus, 239
Coregonus spp., 46
Cortisol, 217
CpG site, 18
Crab, 456
Crocodile, 107
Cross reaction, 233
Crustaceans, 302
Cyanobacterium, 269
Cyclodina, 438
Cystatin, 361
Cysteine protease, 192, 283
Cysteine proteinase inhibitor, 361
Cytochromes, 172

Development, 79, 192, 251
Diet, 209, 239
Digestibility, 445
Digestive enzymes, 98

Earwigs, 113
Egg, 465
Egg albumen, 391
Egg quality, 46
Elongase, 342
Elongation factor-2, 374
Embryo, 153, 251
Embryogenesis, 46, 164, 432
Endometrium, 37
Enzyme activity, 438
Estrogen, 383
Evolution, 8, 129, 251, 258
Exercise, 324
Expression, 153, 251, 456
Expression pattern, 432

Farfantepenaeus paulensis, 302
Fasciola gigantica, 308
Fasting, 217
Fatty acid composition, 172, 293
Feed intake, 445
F. gigantica, 192
Ficin, 361
Fish, 28, 324, 342
Fish larvae, 426
Fish meal, 224
Fluidity, 28
Fluorescence, 361
Freshwater turtles, 233
FSH, 383

Galápagos land iguana, 239
Galliformes, 245
Gecko, 438
Gene, 142, 342
Gene expression, 8, 18, 383
Gene frequency, 18
GH, 217
Gilthead sea bream, 224
Globin, 258
Globulin, 67
Glutathione peroxidase, 335, 465
Glutathione-*S*-transferase, 335
Glycogen metabolism, 56
Glycogen phosphorylase, 398
Glycogen synthase (GS), 201
Glycolipids, 269
Goat hemoglobin, 18
G protein β subunit, 142
Ground squirrels, 374
Grouper, 432
GTH, 383

HDL-BGBP, 209
Heat shock, 426
Hemocyte lysate, 302
Hemoglobin, 258
Hemolymph, 90, 317
Hemolymph coagulation, 302

doi:10.1016/S1096-4959(05)00245-9

Hemostasis, 353
Hen, 391
Hepatopancreas, 209, 456
Heterodimer, 369
Hexokinase (HK), 201
Highly unsaturated fatty acid, 342
Hindgut motility, 113
Hoplodactylus, 438
Hormone-sensitive lipase, 374
Hot spot, 18
House finch, 245
HoxA10, 123
HSP70, 426
HSP90, 426
HSPs, 426
Human platelet aggregation, 353
Hyalomma dromedarii, 164
Hyaluronidase, 164
Hybridization, 251
Hydroxyproline, 1
Hydrurga leptonyx, 67
Hypoglycemia, 201
Hypoxia, 426

Idoxanthin, 445
IGF-I, 217
Immunochemistry, 113
Immunological distance, 233
IMP, 107
Inhibition constant, 361
Inhibitor of carbonic anhydrase, 129
Inhibitors, 98
Insect, 90
Insect immunity, 317
Iron binding, 129
Isoelectrofocussing, 1

Juvenile hormone biosynthesis, 113

Kidney, 335, 361

Labeo rohita, 8
Laying hen, 419
LDH, 438
Leopard seal, 67
Leptin, 410
Leukocytes, 410
LH, 383
Liganding residues, 129
Lipid, 28
Lipids, 269
Lipoprotein, 209
Lipoprotein lipase, 224
Liver, 107, 153, 224, 335, 398, 432
Lizard, 107, 123, 293
Lizards, 239
Lutein, 239

Major yolk protein, 129
MALDI-TOF, 317
Manganese, 403
Mantle tissue, 56
Mass spectrometry, 269
Masu salmon, 383
Maternal effects, 465
Medullary bone, 419
Membrane, 28
Mesotocin, 37
Metabolic rate suppression, 374
Metabolism, 445
Metalloprotease, 153
β-microseminoprotein, 251
Mineralization, 419
Mitochondria, 172
Mitochondrial membrane, 172
Molecular characterization, 56
Molecular mass, 361
Monoclonal antibody, 233
Morphogenesis, 432
MRFs, 324
mRNA, 201
mRNA expression, 79
mRNA levels, 209
Mucopolysaccharides, 398
Multiple forms, 391
Muscle, 172
Muscle growth, 324
Myometrium, 37
Mytilus, 56

Naultinus, 438
Neuroendocrine complex, 113
Neuropeptide Y, 79
NFAT2, 324
Non allelic variants, 18
Nonylphenol, 383
N-terminal, 361
Nucleotide sequence, 258
5′-Nucleotidase, 107
Nutrition, 181

Oligosoma, 438
Olive flounder, 283
Oncorhynchus mykiss, 426
Ontogenesis, 98
Orange spotted grouper, 79
Orange-spotted grouper, 432
Ortholog, 8
Osmoregulation, 28
Osteoblast developmental markers, 419
Osteoblasts, 419
Ovary, 456
Oviduct, 123, 391
Oviparity, 293
Oviposition, 37
Oxytocin, 37

Pacifastin, 129
Papain, 361
Paralichthys olivaceus, 283
Parasitism-specific proteins, 181
Passeriformes, 245
PCNA, 324
Penaeid, 302
Phosphofructokinase-1 (PFK-1), 201
Phospholipid, 172, 293
Phylogenetic tree, 403
Phylogeny, 8
Pinctada fucata, 142
Plasma, 410
Plasma carotenoids, 245
Platelet-activating factor, 269
Platelets, 269
Plumage coloration, 245
Polymerase chain reaction, 283
Polyunsaturated fatty acids, 410
Polyunsaturation, 172
Primary structure, 18, 258
Proapolipoprotein A-II, 369
Promoter, 383
Propeptide, 369
Prostaglandins, 410
Protein analysis, 67
Protein kinase PKR, 8
Protein phosphorylation, 374
Purification, 56, 164, 192, 302, 308, 317, 361

Rainbow trout, 398
Rat, 419
Receptors, 37
Reptile, 107
Reptiles, 239
Reverse transcription-polymerase chain reaction, 79
Rhagium inquisitor, 90
RNA secondary structure, 8

Salinity, 28
Saxiphilin, 129
Scuticociliate, 283
Seabream, 410
Season, 224
Selenium, 465
Selenoproteins, 465
Sequence homology, 8
Serine protease, 192
Serum protein electrophoresis, 67
Sexual selection, 245
Shell gland, 37
Shrimp, 209
Shrimp immunity, 302
Silkworm, 403
Skeletal muscle, 224
Skink, 438
Snail procollagenase, 1
Society finch, 245
Southern blot, 79
Sparus aurata, 426
Squid, 153
Starvation, 209
Storage proteins, 181
Stress, 426

Stressors, 426
Substrate SDS-PAGE, 98
Supernumerary haplotypes, 18
Superoxide dismutase, 403
Synergistic anion, 129

Temperature, 293, 445
Teratocytes, 181
Thiobarbituric reactive substances, 335
Three-dimensional structure, 8
Thrombocyte aggregation, 353
Tick, 164
Tissue distribution, 153
Tissues distribution, 79
Tolbutamide, 201
Total lipid, 293
Transcription, 383
Transferrin, 129
Transglutaminase, 302
Translationallly controlled tumour protein, 8
Triacylglycerol, 293
Turtle thrombocytes, 353

Unsaturated fatty acid, 293
Urea cycle, 308
Uricotelism, 107
Uronema marinum, 283
Uterus, 123

Vasotocin, 37
Vegetal protein, 224
Vitellin, 456
Vitellogenesis, 456
Vitellogenin, 233, 456
Viviparity, 123

Western blot, 1
Whole blood, 353
Whole-mount in situ hybridization, 432

Xenoestrogen, 383

Yolk, 465
Yolk protein, 233
Yolk syncytial layer (YSL), 432

Zeaxanthin, 239
Zymography, 1

AUTHOR INDEX

Vol. 142B, Nos. 1-4

Agaba, M.K., 342
Ahn, S.J., 283
Akiba, Y., 201
Ali, Nawab., 37
Aluru, N., 426
Andersen, R.A., 90
Antonopoulou, S., 269
Aso, Y., 403
Atsumi, S., 317

Babu, M., 1
Baeyens, D.A., 37
Bagnyukova, T.V., 335
Banno, Y., 403
Barracco, M.A., 302
Bassilian, S., 369
Błędniak, D., 391
Bell, J.G., 410
Bertacche, V., 239
Bilqees, B., 361
Bjerkeng, B., 445
Bramante, G., 18
Brandt, S.L., 181

Caballero, M.J., 410
Calduch-Giner, J.A., 224
Canfield, P., 67
Cara, J.B., 426
Carosi, M., 239
Casagrande, S., 239
Chakrabarti, R., 98
Chaturvedi, C.M., 37
Chen, L., 142
Chen, R., 79
Choi, E., 383
Chung, J.K., 283
Clark, A.G., 438
Class, R., 353
Cônsoli, F.L., 181
Cornett, L.E., 37
Costantini, D., 239
Coudron, T.A., 181

Daffre, S., 302
Dai, Y., 142
Dai, Z.-M., 456
Daugherty, C.H., 438
Davies, S.J., 398
Dell'Omo, G., 239
Di Luccia, A., 18
Dick, J.R., 342
Dickson, C.A., 342
Dilworth, S.M., 374
Droba, B., 391
Droba, M., 391

Else, P.L., 172

Fabiani, A., 239
Fahmy, A.S., 192, 308
Fan, W., 142
Fragopoulou, E., 269
Fujii, H., 403

Ganga, R., 410
Gao, F.-Y., 293
García-Carreño, F., 209
Gen, K., 383
Gentile, G., 239
George, R., 353
Gómez-Requeni, P., 224
Gray, R., 67
Gubrij, K.I., 37
Guderley, H., 172
Gui, J.-F., 432

Hagen, L., 90
Halbrooks, P.J., 129
Hamdy, S.M., 192, 308
Hare, K.M., 438
He, N., 403
Herbert, J.F., 123
Hiyama, S., 419
Horman, S., 374
Hoshi, H., 233
Hulbert, A.J., 172
Hussain, N., 374

Imamura, M., 317
Indra, D., 1
Itoh, R., 107
Iwahashi, H., 153
Izquierdo, M.S., 410

Jeon, J.-K., 383
Jeong, H.D., 283
Ji, G.-D., 432
Johnston, I.A., 324
Jung, Y., 383

Kamata, Y., 233
Kanzawa, N., 153
Karadas, F., 465
Karantonis, H.C., 269
Kaushik, S., 224
Kim, J.K., 283
Kim, K.H., 283
Kim, M.S., 283
Kim, S., 383
Kimura, K., 107
Kirby, J.D., 37
Kitami, M., 317
Koppe, W., 445
Kristiansen, E., 90
Kumar, S., 98
Kunihisa, I., 153
Kusuhara, S., 419
Kwok, R., 113

Lahnsteiner, F., 46
Lambert, L.A., 129
Lee, H.H., 283
Li, C.-J., 432
Li, H., 251
Li, R.-D., 293
Li, W., 79
Lim, S.U., 283
Lin, H., 79
Liu, Z., 251
Lombraña, M., 56
Lorenzini, D.M., 302
Lushchak, V.I., 335

MacDonald, M.H., 369
Maeng, S., 383
Marquez, C., 239
Martin, C.I., 324
Mason, A.B., 129
McGraw, K.J., 245
Médale, F., 224
Mikhailova, M., 37
Miller, J.H., 438
Minakawa, F., 233
Miura, N., 317
Mohamed, S.A., 164, 192, 308
Mohamed, T.M., 192, 308
Montero, D., 410
Moyano, F.J., 426
Muhlia-Almazán, A., 209
Murphy, C.R., 123

doi:10.1016/S1096-4959(05)00246-0

Nagai, T., 258
Nakamura, K., 153
Nomikos, T., 269

Oikonomou, A., 269

Page, G.I., 398
Paladino, F., 353
Pantazidou, A., 269
Pappas, A.C., 465
Park, N.G., 283
Pedersen, S.A., 90
Perazzolo, L.M., 302
Peregrino-Uriarte, A.B., 209
Pérez-Sánchez, J., 224
Perri, H., 129
Pieragostini, E., 18
Prest, P.J., 353
Puppione, D.L., 369

Ramalingam, K., 1
Ramløv, H., 90
Rankin, S.M., 113
Rathore, R.M., 98
Rider, M.H., 374
Robaina, L., 410
Rogers, T., 67
Roy, R., 28
Rullo, R., 18
Russell, P.M., 398

Sadaf, Z., 361
Saera-Vila, A., 224
Saito, A., 317
Saka, M., 233
San Juan, F., 56
Sánchez-Paz, A., 209
Sato, K., 201
Sato, R., 317
Scaloni, A., 18
Schumaker, V.N., 369
Seki, Y., 201
Seo, J.S., 283
Seymour, M.L., 113
Shahid, P.B., 361
Shaon Rahman, U., 113
Shen, J.-M., 293
Shishikura, F., 258
Shivkamat, P., 28
Small, B.C., 217
Snell, H., 239
Sohn, Y.C., 383
Soslau, G., 353
Speake, B.K., 465
Storey, K.B., 335, 374
Struksnæs, G., 445
Suárez, P., 56
Sugiyama, T., 419
Surai, P.F., 465

Tabunoki, H., 317
Tada, N., 233
Takeuchi, H.-a., 258
Tapia, W., 239
Tatewaki, S., 153
Teale, A.J., 342
Thompson, M.B., 123
Thomson, M., 123
Tobe, S.S., 113
Tocher, D.R., 342
Tsuchiya, T., 153
Turner, M.L., 37
Turner, N., 172

Uchida, T., 419
Ueda, K., 317

Venugopal, T., 8
Vijayan, M.M., 426
Vinson, S.B., 181
Violetta, G., 353

Wang, L., 251
Wang, Y., 251, 403, 432
Watanabe, A., 317
Watanabe, R., 153
Whitelegge, J.P., 369
Wilkerson, J., 37

Xie, L., 142
Xiong, X., 142
Xu, H.-T., 456

Yam, L.M., 369
Yamamoto, K., 403
Yang, F., 456
Yang, W.-J., 456
Yao, B., 432
Yepiz-Plascencia, G., 209
Ytrestøyl, T., 445

Zachariassen, K.E., 90
Zhang, P., 403
Zhang, R., 142
Zhang, S., 251
Zheng, X., 342
Zhou, L., 432